

DØ Trigger Commissioning Meeting
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L1CTT/PS Protocols

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**New L1CTT protocols v07-00 are out
(dotting i's and crossing t's in CTT)**

**Describe data transfers between all
the many L1CTT components as well
as to all of the consumers: L1Muon,
L2CFT, L2PS, L2STT, and to L3/VRB
readout**

**All protocols (LVDS, G-Link, FSCL)
and explanations of various bitfields
are now provided in one pdf file**

L1CTT Homepage

<http://d0server1.fnal.gov/projects/VHDL/General/>

**Please direct any comments or
suggestions to**

blevan@fnal.gov

Many changes since last version, most of them internal to L1CTT transfers (too many to talk about them all!)

Several changes in STOV to STSX transfers in order to restore PS information in the same way as is provided to L2CFTpp

Put the L2 and L3 communications on the same footing by means of using the same G-Link outband characters

L2 and L3 headers have to be different however due to the fact that Number of Objects can't be constant for our L3/VRB readouts

Issue of G-Link padding frames resolved, reverting to the 'old' scheme of pad frames following the vertical parity frame to make the total number of 16-bit frames multiple of 8 (on the boundary of MBus 128-bit word)

No changes in DFEA to L1Muon

L1CTT Neoterms without H/L PS to be added

... more details if interested, please ask!